QNAP

Network Surveillance System

Stable, Reliable, High Performance

NAC-300

NAC-200

VioCard Series

VioStor-201

VioGate Series

VioServer-5

VioServer-10

VioGate Master

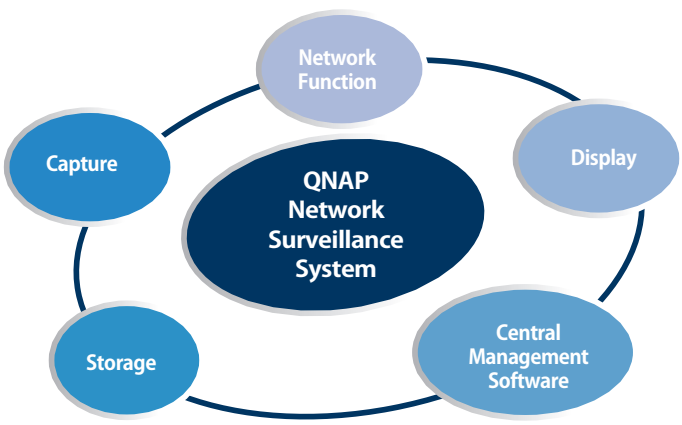
Real-time monitoring everywhere via web interface !

Company Profile

QNAP, with more than 4 years experience in embedded systems, is devoted to be world's leading company in IA (Internet Appliance) field. Our extensive expertise and product lines cover networking storage, digital surveillance and message communication. QNAP's IA products have received ISO 9001 certification, covering product design, manufacturing and supply. With the mission to be customer's best partner, QNAP is dedicated to providing top quality products in the market and offering complete solution to our customers.

QNAP Network Surveillance System

In consideration of the defects of analog and PC-based DVR system: inconvenient handling, unstable system structure, difficult management, system expansion and integration, and unsatisfactory customer service, QNAP has developed a Digitalized, Networked and Modularized network surveillance system.



QNAP integrates management to network surveillance system.

Digitalized

Digitalized video supports the features that analog video cannot employ directly. Digitalized data saves storage space and enables quick search, copy and image printing. As analog system is less frequently used, use of digitalized video will definitely be a trend in the future.

Networked

QNAP network surveillance system establishes full-function networked interface for convenient security monitoring. Users can manage cameras across real boundary via the Internet and Intranet easily and effectively.

Modularized

Modularized network video system enhances stability, adds expanding functions, and disperses dangers. PC-based DVR system provides video capture, storage and display in the same DVR. These three functions must be highly stable to reduce the chance of functional or system crash to ensure system security.

QNAP researches and designs network surveillance system by modularized idea. Surveillance system comprises every module to expand DVR functions for different places and monitor demands. It enhances monitoring stability and reduces the chance of system crash.

Benefits of QNAP Network Surveillance System

Decentralized Structure

- Reducing the amount of coaxial cables and wiring duct
- Eliminating the cost of installation
- Excellent expansibility. No limitation of the physical locations of DVR and storage system

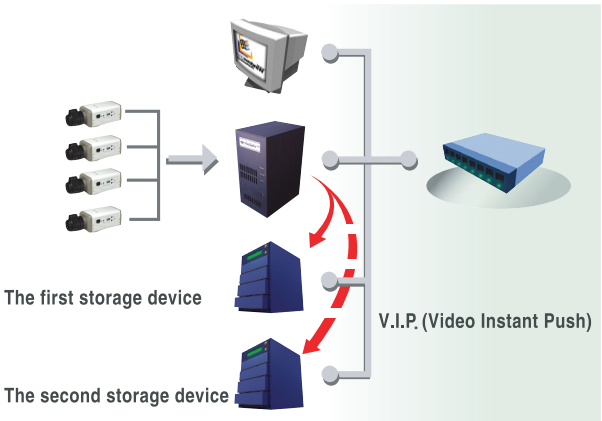
Centralized Management

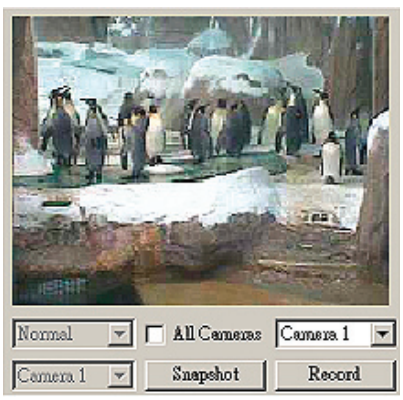
- Virtual surveillance center
  A surveillance point can be set up by PC everywhere via the Internet.
- Intuitive user interface
  Operate all functions via IE browser – Monitoring / Playback / Setting
- Easy establishment of sub-monitoring centers
- Reduce loading from system maintains

QNAP Network DVR Technology

VIP-Video Instant Push Technology

QNAP has broken through ordinarily simple and passive idea in designing video recorder. QNAP converts passive video server to active DVR server and develops Video Instant Push technology. The video server detects all information and saves log files actively. It is not necessary to install any software to manage remote storages. Video recording by local video server will be transferred to remote storage immediately. The video server controls the entire remote storage functions such as storage folders, storage space and recycle recording settings, and supports full duplex recording and playback, including continuous recording, multiple interval scheduling recording, event-triggered recording and playback. Video Instant Push technology establishes the channel between different platforms. Users can maintain the storage device across different platforms such as Linux/Unix, Windows Server, FTP Server and NAS.





Developing and Integrating Component ActiveX

ActiveX is a public standard established by Microsoft to program Internet application software. Programmers can design software or create interactive homepages by ActiveX.

ActiveX technology is upgraded and expanded from OLE (Object Linking and Embedding). It employs the technique of linking and embedding to make combining web page and database easily. The most important feature of ActiveX is that it can be easily integrated with various kinds of Windows application development kits including Visual C++, Visual Basic, Delphi, C++ Builder, etc.

QNAP provides free ActiveX components for programmers to develop application program. Programmers and system integrators can insert Active control items, and then modify some display and control parameters and set up video servers IP address. They can add the latest network video function to ordinary application programs.

Outstanding Surveillance Management System

Virtual surveillance center

QNAP develops an integrated controlling software, VioGate Master, for all surveillance products. A surveillance point can be set up on any PC via LAN or WAN. With VioGate Master, multiple users are allowed to view and record monitoring video conveniently by configuring access control settings.

Manual-selected monitoring screen

QNAP virtual surveillance center enables users to freely configure monitoring content by providing single-frame, 4-frame, 9-frame, 12-frame, 16-frame, 20-frame, picture-in-picture, and continuous-playing monitoring selections. The source of each frame can be defined as different servers.

Once-for-all configuration & management

Breaking through traditional single-channel surveillance system, the same settings can be applied to all DVR devices via VioGate Master within seconds to save time and effort on configuring system, e.g. add, delete, change user name and access right, change monitoring screen settings, and update firmware.

Multiple-layer E-Map

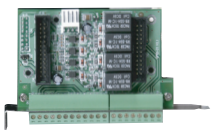
QNAP surveillance program VioGate Master not only supports general functions of monitoring system available in the market, but also provides electronic map for more handy management. Users can upload maps in bitmap or JPEG and indicate location of surveillance devices by dragging corresponding icons on the map.

VioGate-340(A) MPEG-4 Network DVR Server
VioCard-300 MPEG-4 Network DVR Card

VioGate-340(A)/VioCard-300 applies advanced MPEG-4 compression technology, which transforms analog signal to digital data, and employs MPEG-4 IC to compress video immediately. VioGate-340(A)/VioCard-300 provides Full-D1 (720x480) resolution, such as DVD video and 30 frames per second real-time image. Remote users can also enjoy high performance and high quality of QNAP VioGate-340(A)/VioCard-300 by network access.

VioGate-340(A)/VioCard-300 is a video server as well as a module of QNAP Network Video Surveillance System. Administrators can monitor and control multiple VioGate products to co-operate with management module-VioGate Master and storage module, NAS, for remote data recording, backup and storage.

VioCard-GPIO Digital I/O Module



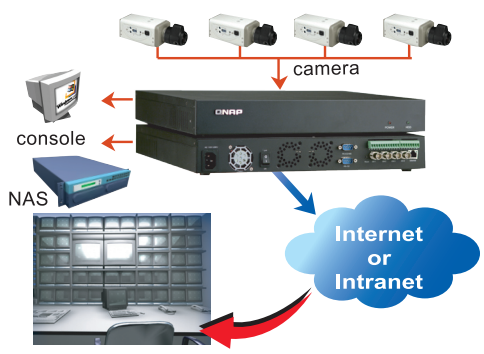
This is an integrated module reserved for the use of VioCard series. 4 independent general purpose input connectors are provided, including 4 relays for output one space only on/off signal to other equipments. VioCard-GPIO enables VioCard series to communicate with POS system, car parking management system, face recognized system, door-entry system, BA system, sensors and switch buttons etc. By the event handling function of DVR system, VioCard can trigger e-mail, send SMS and switch on GPIO.

Features

- 4-channel Full-D1 (720x480) MPEG-4 Compression
- VioGate-340(A) supports 4-channel real-time monitoring and recording
- SMART Recording Mode Adjusts Frame Rate Automatically
- Support Two 3.5" HDD to Extend the Limitation of Video Data
- Built-in Gigabit LAN Chip to Connect High Speed Network
- Various Events Handling Modes, e.g. Motion Detection E-mail / SMS
- Support Several Kinds of High Speed Dome and Control Modes
- Monitoring and System Settings via IE Browser
- Event Action Settings for Audio Recording(VioGate-340(A) only)

Virtual Surveillance Center

VioGate Master is a program to integrate and monitor multiple VioGate/ VioCard servers. With VioGate Master, your DVR servers will be strengthened for easier and handier control.



VioCard-300 / VioGate-340 System Specifications

	VioGate-340	VioCard-300
Video input	4 channel BNC composite input	
Audio Input	4 channel RCA Audio Line-in Device (VioGate-340(A) only)	
Video Format	NTSC or PAL	
Video Capture	4 x MPEG-4 Real-time Encoder chip	
Video Resolution	NTSC: Full-D1(720x480), Half-D1(720x240), CIF(352x240), QCIF(176x112) PAL: Full-D1(720x576), Half-D1(720x288), CIF(352x288), QCIF(176x112)	
Video Ratio	Adjustable for each channel respectively Bit rate: 3M bps~ 32K bps	
Browser	Microsoft Internet Explorer 6.0 or above for Windows 2000,XP	
Recording Mode	Continuous recording, scheduled recording, event-triggered recording, manual recording (manual snapshot)	
Video Playback	By IE browser, playback by time / event / file, fast playback support	
Video Compression	Mpeg-4 Simple Profile @ L3	
Video Storage	Local Storage: 2 HDD Remote Storage: Windows OS (2000, XP), FTP Server, NAS Supports 2 sets of storage source. When the first set fails, the system can automatically switch to the second storage device for uninterruptible recording / snapshot.	
Event Handling	Event Type: Motion detection, video input loss, network failure, system failure, storage full, GPI (General Purpose Input) Event Action Type: Recording, Snapshot, e-mail, SMS, GPO (General Purpose Output)	
Networking	10/100/1000 Mbps Ethernet DHCP client support HTTP, TCP/IP, SMTP, FTP PPPoE, DDNS support Multicasting, Unicasting	
Serial Port	One RS232 and RS485 (for P/T/Z camera control)	
Simple Firewall	Yes	
ActiveX Control	Yes	
System Automatic Recovery	Automatic system recovery after power loss	
Languages	Traditional Chinese /Simplified Chinese / English / French/Polish	
Operating Temperature	5 ~ 50°C (40 ~ 125°F)	
Humidity	0~95% R.H.	
Dimensions	340 mm x 360 mm x 50 mm	100mm x 310mm

* Designs and specifications are subject to change without notice.

Order Information

VioGate-340(A) MPEG-4 Network DVR Server
1U, 4-channel DVR System, Including VioCard-300 / GPIO and 150W Power Supply

VioGate-340(A)-X-Y MPEG-4 Network DVR Server with HDD
X: 3.5" HDD Number–1, 2 Y: HDD Capacity
VioGate-340(A) with X x Y 3.5" HDD
*(A) supports audio functions

VioCard-300 MPEG-4 Network DVR Card
Full-function DVR card has CPU, memory, MPEG-4 encoder chip, Gigabit LAN port. Embedded OS and application services

VioCard-GPIO Digital I/O Module
The integrated module reserved for the use of VioCard-300, including 4 sets of GPIO connectors, provides VioCard-300 to connet other hardware

VioGate-320 MPEG-4 Network DVR Server
VioCard-30 MPEG-4 Network DVR System Card

With hardware MPEG-4 encoder, VioGate-320 / VioCard-30 can provide 4 channels CIF (352x240) real-time recording in adjustable bit rate from 48K bps to 3M bps!!

The local display function lets you view video by connecting to a monitor. It provides 1-channel, 4-channel, and sequential video monitoring.

VioCard-30 is the best surveillance solution for limited space. It is a small-sized independent monitoring system with CPU, memory, image conversion chipset, 10/100 Mbps network connection port, built-in operation system and ActiveX control monitoring application. It is an easy-to-combine system with a large number of channels in compact-size industrial case for building surveillance application.

VioCard-GPIO Digital I/O Module

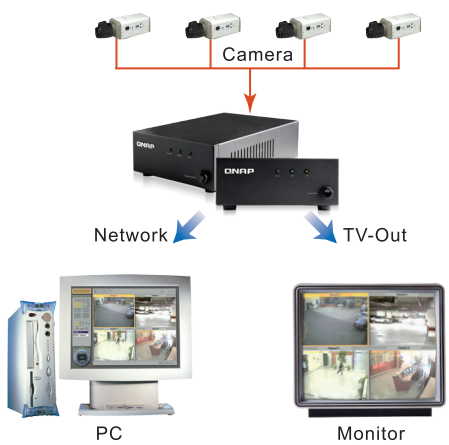
Please refer to page 3.

Features

- Hardware MPEG-4 compression
- 4 channels CIF (352x240) real-time (30FPS) recording
- TV out for local monitoring
- Support 1 HDD for recording
- Remote recording with various storage platforms compatible
- Easy monitoring and control via IE browser
- Support 4 alarm inputs and 4 alarm outputs

Virtual Surveillance Center

VioGate Master is a program to integrate and monitor multiple VioGate/VioCard servers. With VioGate Master, your DVR servers will be strengthened for easier and handier control.



VioGate-320 / VioCard-30 System Specifications

	VioCard-30	VioGate-320
Video Input	4 channel BNC composite input	
Audio Input	One RCA Audio Line-in Device	
Video Format	NTSC or PAL	
Video Capture	1 MPEG-4 Real-time encoder chip	
Video Output	1 TV output for local monitoring	
Video Output Displayer	1 channel, 4 channels, sequential mode	
Video Resolution	NTSC: CIF(352x240) PAL: CIF(352x288)	
Video Ratio	Adjustable for each channel respectively Bit rate: 3M bps~ 48K bps	
Browser	Microsoft Internet Explorer 6.0 or above for Windows 2000, XP	
Recording Mode	Continuous recording, scheduled recording, event-triggered recording, manual recording (manual snapshot)	
Video Playback	By IE browser, playback by time / event / file, fast playback support	
Video Compression	MPEG-4 Simple Profile @ L3	
Video Storage	Local Storage: 1 HDD Remote Storage: Windows OS (2000, XP), FTP Server, NAS Supports 2 sets of storage source. When the first set fails, the system can automatically switch to the second storage device for uninterruptible recording / snapshot.	
Event Handling	Event Type: Motion detection, Video input loss, Network failure, System failure, Storage full, GPI (General Purpose Input) Event Action Type: Recording, Snapshot, Email, SMS, GPO (General Purpose Output)	
Networking	10/100 Mbps Ethernet DHCP client support HTTP, TCP/IP, SMTP, FTP PPPoE, DDNS support Multicasting, Unicasting	
Serial Port	One RS-232 and RS-485 (for P/T/Z camera control)	
GPIO	Option	
Simple Firewall	Yes	
System Automatic Recovery	Automatic system recovery after power loss recovery	
Languages	Traditional Chinese / Simplified Chinese / English / French / Polish	
Operating Temperature	5 ~ 50°C (40 ~ 125°F)	
Humidity	0~95% R.H.	
Dimensions	186mm x 136mm	168 x 236 x 64 mm

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Order Information

VioGate-320 MPEG-4 Network DVR Server
4-channel DVR System, Including VioCard-30 and supporting GPIO connectors for integrating with other system.

VioGate-320-S MPEG-4 Network DVR Server with HDD
S: HDD Capacity

VioCard-30 MPEG-4 Network DVR System Card
Full-function DVR card has CPU, memory, MPEG-4 encoder chip, 10/100 Mbps LAN port. Embedded OS and application services

VioCard-GPIO Digital I/O Module
The integrating module reserved for the use of VioCard-30, including 4 sets of GPIO connectors, provides VioCard-30 to connet other hardware

VioGate-140 Network DVR Server
VioCard-100 Network DVR Card

Featuring Motion-JPEG encoding technology, VioGate-140/ VioCard-100 adopts the most stringent industrial level standard to ensure highest reliability for even most mission-critical surveillance purposes. With Linux embedded operation system, VioGate-140/ VioCard-100 completely eliminates incompatibility problems commonly seen in PC-based solutions, while offering extreme simplicity for installers as well as system integrators.

VioGate-140/ VioCard-100 is more than just a network video server. VioGate-140/ VioCard-100 utilizes the modular concept to make your security deployment highly scalable for future expansion. VioGate-140/ VioCard-100 can be deployed in a wide-spread location. VioGate Master, QNAP's exclusive network DVR management software, can integrate unlimited number of cameras & NDVR at your finger tips.

VioCard-GPIO Digital I/O Module

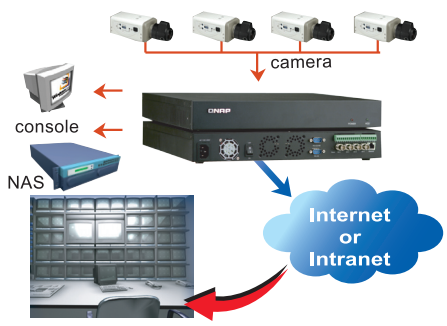
Please refer to page 3.

Features

- Industrial standard compliant
- Embedded stable Linux operation system
- Support 2x3.5" HDD to extend the cycle recording
- Various events handling modes (e.g. motion detection triggered e-mail / SMS)
- Easy for integrating into any system.
- All system functions are networked
- Auto system recovery after power loss recovery
- Support various remote storages including Windows OS share folder, FTP, and NAS.
- Support redundant remote storage.

Virtual Surveillance Center

VioGate Master is a program to integrate and monitor multiple VioGate/VioCard servers. With VioGate Master, your DVR servers will be strengthened for easier and handier control.



VioCard-100 / VioGate-140 System Specifications

	VioCard-100	VioGate-140
Video input	4 channel BNC composite input NTSC/PAL auto sensing	
Video Resolution	160x120, 320x240, 640x240, 640x480	
Video Compression Ratio	5 adjustable levels	
Supported Browser	Microsoft Internet Explorer 6.0 or above for Windows 98SE, ME, 2000, XP	
Recording Mode	Continuous recording, schedule recording, event-triggered recording, manual recording (manual snapshot)	
Video Playback	By IE browser, playback by time / event / file, fast playback support	
Video Compression	Motion JPEG	
Video Storage	Local Storage: 2 HDD Remote Storage: Windows OS (2000, XP), FTP Server, NAS Supports 2 sets of storage source. When the first set fails, the system can automatically switch to the second storage device for uninterruptible recording / snapshot.	
Motion Detection	Multiple detection areas with 5 adjustable sensitivity levels 30 seconds pre alarm video recordings motion triggered mode	
Event Handling	Event Type: Motion detection, Video input loss, Network fail, System failure, Storage full, GPI (General Purpose Input) Event Action Type: Recording, Snapshot, Email, SMS, GPO (General Purpose Output)	
Networking	10/100Mbps Ethernet DHCP client support HTTP, TCP/IP, SMTP, FTP PPPoE, DDNS support Multicasting, Unicasting	
Serial Port	One RS232 and RS485 (for P/T/Z camera control)	
Simple Firewall	Yes	
ActiveX Control	Yes	
System Auto Recovery	Auto system recovery after power loss recovery	
Languages	Traditional Chinese /Simplified Chinese / English/ Japanese	
Operating Temperature	5 ~ 50ºC (40 ~ 125ºF)	
Humidity	0~95% R.H.	
Dimensions	100mm x 310mm	340 mm(L) x 360 mm(W) x 50 mm(H)

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Order Information

VioGate-140 - Network DVR Server
1U, 4-channel DVR System, Including VioCard-100 / GPIO and 150W Power Supply

VioGate-140-X-Y - Network DVR Server with HDD
X: 3.5" HDD Number–1, 2
Y: HDD Capacity
VioGate-140 with X x Y Storage Capacity

VioCard-100 Network DVR Card
Full-function DVR card has CPU, memory, 10/100 Mbps LAN port. Embedded OS and application services

VioCard-GPIO Digital I/O Module
The integrating module reserved for the use of VioCard-100, including 4 sets of GPIO connectors, provides VioCard-100 to connet other hardware

VioServer-10/5 40/20 Channels Network Surveillance Chassis

VioServer is a dedicated server case for VioCard series. Up to 10 VioCards can be installed to collect 40-channel camera images in one single system, which outstands traditional 16-channel/ 32-channel monitoring server. When VioCard-300 is installed, VioServer can support up to 40-channel Full-D1 (720x480) real-time (30 fps) monitoring image, providing higher image quality than general MPEG4-DVR products in the market. With VioCard-GPIO, VioServer can support 40 GPI and 40 GPO at maximum simultaneously to be an all-in-one network surveillance server.

Features

- Single server supports up to 40-channel camera image
- Blade system design
- Hot-swappable VioCard
- Free combination of VioCard series
- Supports hard disk for data storage for VioCard

Benefits

- Networked Remote Operation via the network
- Modularized Modular Frame can combine VioCard independently
- Flexible MPEG-4 and Motion JPEG coexist simultaneously
- Low Cost Share space and power supply cost
- Guarantee QNAP-certified hardware and software

VioGate Master—Central Surveillance System

With the use of QNAP-developed, central surveillance software—VioGate Master, remote monitoring of multiple channels of VioServer can be acquired. All VioCards on VioServer can be collectively configured and maintained. Differing from traditional surveillance system's grid management, the E-MAP function of VioGate Master enables users to use graphic icons to monitor system.

The dual-screen output function of VioGate Master supports viewing of 40 channels on VioServer at the same time. VioServer + VioGate Master are the best partners for network surveillance system!

VioServer-10
40 Channels Network Surveillance System

- 7U Rack Mount Chassis
- 10 Slots for VioCard Series
- 10 Slots for VioCard-GPIO or RS-232/422/485
- Support 10 x 3.5" HDD Bays
- Power Supply: 2 x 350W PS/2 AT Power
- LED Indicators: Power, HDD, LAN
- Dimensions: 431(W) x 311(H) x 516.7(D) mm
- Weight: 34 Kg (Not include VioCard and HDD)
- Operating Environment: 5~50°C , 0–95% R.H.

VioServer-5
20 Channels Network Surveillance System

- 4U Rack Mount Chassis
- 5 Slots for VioCard Series
- 5 Slots for VioCard-GPIO or RS-232/422/485
- Support 5 x 3.5" HDD Bays
- Power Supply: 350W PS/2 AT Power
- LED Indicators: Power, HDD, LAN
- Dimensions: 431(W) x 176(H) x 413(D) mm
- Weight: 10 Kg (Not include VioCard and HDD)
- Operating Environment: 5~50°C, 0–95% R.H.

Order Information

VioServer-10 40 Channel Network Surveillance Chassis
7U, Support 10 x VioCard, 10 x VioCard-GPIO or RS-232/422/485, Including 2 x 350W PS/2 AT Power Supply
VioServer-5 20 Channel Network Surveillance Chassis
4U, Support 5 x VioCard, 5 x VioCard-GPIO or RS-232/422/485, Including 350W PS/2 AT Power Supply

VioServer-A-B-C-X-Y
A: VioServer Model – 5, 10
B: VioCard Number – 1~5 for VioServer 5, 1~10 for VioServer-10
C: VioCard Model – 300, 100, 30
X: 3.5" HDD Number –1~5 for VioServer 5, 1~10 for VioServer-10
Y: HDD Capacity
VioServer- A with B x VioCard-C and X x Y Storage Capacity

NAC-200 High Resolution Network Camera

QNAP NAC-200 is a network camera with image resolution of 1.3 mega pixels. You can select different resolution combination for viewing images and the maximum resolution supported is 1280x1024. Different from many other network cameras which are restricted by low resolution, USB interface, and bounded to certain computer devices, NAC-200 combines a camera, operating system and application firmware in one. By simply connecting NAC-200 to the Internet, users can view and record the remote video images, and access the administration page via the IE browser.

Features

- 1.3 mega pixels resolution
- 1/2" SXGA color CMOS
- Easy management and configuration by IE browser
- Supports manual recording and snapshot taking for transferring to PC
- Supports DDNS for dynamic IP address

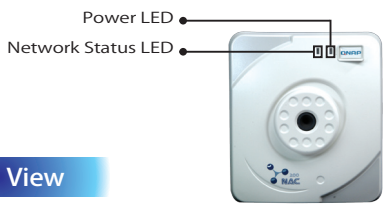
By building up NAC-200 in the factory, supervisors can stay in the office and check the real-time status of the workers. Supervisors also can choose recording the video images and save to remote NAS for backup the data.

Grandparents now can view high-resolution video images of grandchildren who live far away and take a snap-shot to print out a 4" x 6" photo.

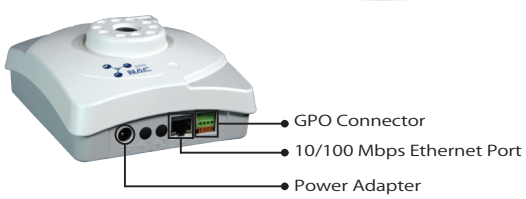
Product Specifications

Hardware	CPU	32-bit RISC CPU
	ROM	32MB Flash Memory
	RAM	64MB SDRAM
Communication	LAN	RJ-45, 10/100 Mbps Ethernet
	Protocol	HTTP, TCP/IP, DHCP, PPPoE, DDNS
	General Output	One
Image Sensor	Sensor	1/2" SXGA Color CMOS
System Specifications	OS	Embedded Linux
	Video Compression	JPEG, Motion-JPEG
	Networking support	DHCP/Static IP/PPPoE / DDNS / DNS / Multicast
	Browser	Microsoft Windows 98SE / ME /NT4.0 /2000 / XP Internet Explorer 5.0 or above
	Storage	NAS / Windows / Unix / Linux
	Finder	Finder software can search all NAC-200 in LAN automatically
	Monitoring	Support various video resolutions Support Timestamp High Performance, 640x480@20FPS
	Recording & Snapshot	Automatically recording with user defined schedule 7 factory preset schedules to choose Able to record to remote computer (NAS/ Windows/Unix/Linux) Able to record to viewer's computer manually Taking high resolution (1.3 Mega Pixels) still image while monitoring
	Event Handling/Action	Recording Failure Storage Failure/Full Digital Output x 1
	Video Playback	Built-in Player Support remote video file playback
	Video Setting	Resolution for monitoring and recording: 1280x1024, 640x480, 320x240 Resolution for snapshot: As Monitoring, 1280x1024 5 level frame rate adjustment Brightness, Hue, Saturation and contrast adjustment for 640x480 & 320x240
	System Administration	Password & Username setting for administrator and normal user Date / Time setting User settings Backup/Restore Firmware Update
	Languages	Traditional Chinese / Simplified Chinese / English
	Resolution	UP TO 1280 x 1024
Mounting	Mounting Bracket	Desktop, Wall Mount
Operation Condition	Operating Temperature	0~45°C
	Humidity	0~95% R.H.
	Power Consumption	12V DC, 650mA
Dimensions & Weight	Dimensions (H x W x D)	121 x 136 x 62 mm
	Weight	690g

Front View



Bottom View



Order Information

NAC-200 High Resolution Network Camera
1.3 Mega Pixels Network Camera

NAC-300 High Performance MPEG-4 Network Camera

QNAP NAC-300 is equiped with powerful MPEG-4 hardware encoding engine to deliver real-time video at Full-D1 (NTSC:720x480, PAL:720x576) resolution.

Besides the superb video quality, QNAP NAC-300 offers a variety of advanced features such as recording, motion detection, Auto-IRIS lens upgradable and intelligent alarm handling without extra software.

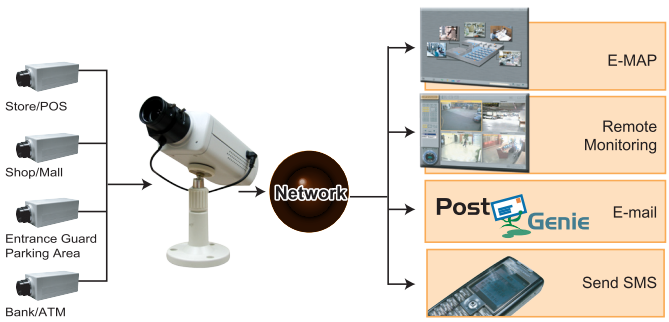
All these outstanding functionalities make NAC-300 the right choice for network monitoring and surveillance applications.

Features

- Dedicated MPEG-4 encoding IC engine
- Best DVD resolution and real-time video
- Built-in Motion Detection for highest security
- Automatical E-Mail notification//SMS
- Most intelligent alarm handling
- Video output for analog monitoring purpose
- Metal chassis for the best drop, vibration and shock protections

Benefits

- **Cost-effective**
  Low acquisition cost, highest level protection
- **The easiest security solution**
  Simple 5 steps for quick installation
- **Intelligent guard**
  Automatic alarm notifications via GSM and network
- **User-friendly Management**
  Graphic user interface reduces operation difficulty
- **Reliable**
  Industrial standard compliant



Order Information

NAC-300N, NTSC MPEG-4 Network Camera
MPEG-4 Network Camera with NTSC Video Output and Alarm Input/Output

NAC-300P, PAL MPEG-4 Network Camera
MPEG-4 Network Camera with PAL Video Output and Alarm Input/Output

Product Specifications

Hardware	Sensor	1/3" Interlance CCD
	Electronic Shutter	NAC-300N: 1/60s~1/100,000s, auto NAC-300P: 1/50s~1/100,000s, auto
	White Balance	Auto
	BLC	Auto
	Lens Type	C/CS mount
	Dimension(Without Lens)	149mm(L) x 70mm(W) x 50 mm(H)
	Power Adapter	12V /1A / 12W
	Operating Environment	5~40° C, 0~90% R.H
	Network Connector	RJ-45
	Video Output Connector	BNC
	Alarm Input/Output	1 set
Video	Compression Format	Hardware MPEG-4 ASP @ L3
	Resolution	Full-D1 (720x480 in NTSC, 720x576 in PAL) HALF-D1 (720x240 in NTSC, 720x288 in PAL) CIF (352x240 in NTSC, 352x288 in PAL) QCIF (160x122 in NTSC, 176x144 in PAL)
	Bit rate	64Kbps~2Mbps
	Video Adjustment	Brightness/ Hue/ Saturation/ Contact
Recording	Support Manual Recording and Snapshot	
Motion Detection	16x16 Blocks for Motion Detection Flexible Scheduling Profiles	
Alarm Management	Alarm Type	Motion Detection, Network Failure, Alarm Input
	Alarm Active	e-mail and SMS Notification, Alarm Output
Authentication	Administrator	System configuration, Snapshot, Recording, Monitoring, Scale window size
	Common user	Snapshot, Recording, Monitoring, Scale window size
Network	10/100 Mbps Ethernet TCP/IP, DHCP, RTP, UDP, HTTP, PPPoE, DDNS, Multicast, SMTP, NTP	
Information	Event Log, System Log	
Language Support	English, Traditional Chinese, Simplified Chinese, Japanese	
Utility Software	QNAP Finder, QNAP Player, NAC Recorder	
Client PC Requirement	CPU: Pentium III 1GHz or above Memory: 256MB RAM Operation System: Windows 2000, Windows XP Home/Professional Browser: IE 6.0 or above DirectX: 8.1 or above	

QNAP Innovative Network Video Recorder

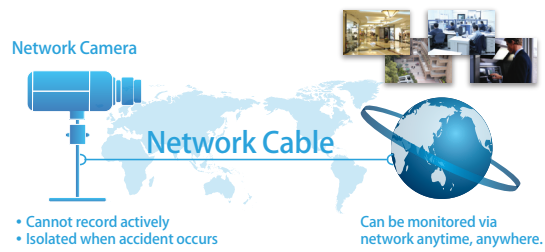
NVR (Network Video Recorder) provides complete network video recording functions to enable users to manage network cameras collectively via the operation interface, and capture the video data of network camera (IP camera) actively and save it to the hard disks of NVR. NVR also supports synchronized recording, monitoring and playback by remote login to enhance the efficiency and convenience of network cameras.

The advantages of NVR system

What are the advantages and disadvantages of network camera?

Advantage:
User can connect to the network camera to view the monitoring screen via IE browser directly.

Disadvantage:
Cannot execute active recording.



The defects of traditional solution

Traditionally, users need to install professional PC-based storage software into the computer and save the recorded video files from network cameras to PC or network storage device.

The disadvantages of installing PC-based storage software:

• Need to setup PC environment firstly and extra time is needed to install the software. There may be many technical issues happen such as software compatibility problems.

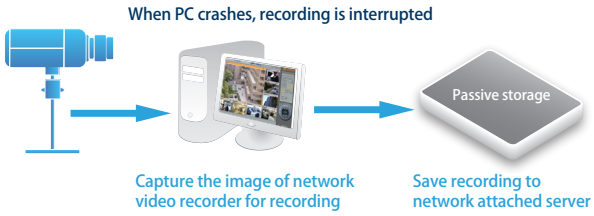
• There are so many things that PC OS need to take care of except recording video from network camera, so the unsteady PC performance may affect recording quality.

• When PC or the peripheral network devices encounter errors, recording process will be terminated. There are still risks from the Internet, such as virus attack and hacking which may cause the system unstable.

• The users have to possess professional network knowledge and skills to complete the complicated of the installation process.

• It is hard to identify the source of the problem by scanning and checking PC components and its peripherals when recording error occurs.

⬇ IP Camera + PC-based solution


When PC crashes, recording is interrupted
Passive storage
Capture the image of network video recorder for recording
Save recording to network attached server

QNAP VioStor-201 offers simpler, more convenient and stable system with high quality video storage

QNAP VioStor NVR high-performance, embedded solution differs from complex and error-prone traditional PC-based structure, provides reliable RAID subsystem that stores high quality videos from our selected compatible IP cameras and makes simple surveillance environment feasible for home, SOHO and SMB users now.

You can set up your NVR in only 6 steps followed by smart instructions of QNAP Quick Setup wizard and simply make it work. QNAP VioStor-201 adopts the most innovative technology for recording real-time video data from network cameras. It also integrates many advanced recording functions, such as PTZ models of famous network camera. With user-friendly web UI, you can monitor at most 8 IP cameras simultaneously in one page regardless of the separated locations.

VioStor-201 actively records video from IP cameras located in LAN or remote sites through the Internet into a two-bay, hot-swappable RAID storage. It allows advanced user management to restrict right person to access the right network camera.

⬇ Innovative active storage technology

VioStor-201 Network Video Recorder

Hottest New Product!

QNAP VioStor-201 is a dedicated active storage device equipped with innovative technology for storing the recordings of network cameras actively. It integrates the advanced recording functions of popular network cameras into a user-friendly web UI.

VioStor-201 can record video actively from various IP cameras located in local or remote sites into a dedicated storage device instead of personal computer. It also supports real-time monitoring everywhere via the web.

Secure Your Life,
Secure Your Property.

Outstanding Product features

Best Hardware Design

- **Embedded system with lowest power consumption**
  Linux embedded system is secure, stable and power-saving. It is less liable to PC crash and virus attack. Also, there is no need to install extra software or perimeter devices as PC does. This enhances the stability and convenience of monitoring and recording.

- **Support 2 high-speed SATA hard drives**
  SATA hard drives are faster than IDE hard drives, which enhance recording and playback performance.

- **Storage capacity up to 1.5 TB for long time recording**
  VioStor is the best choice for long-time recording and saving large amount of recording data.

- **Small-sized, easy to deploy**
  VioStor occupies small space. It is easy to install and maintain.

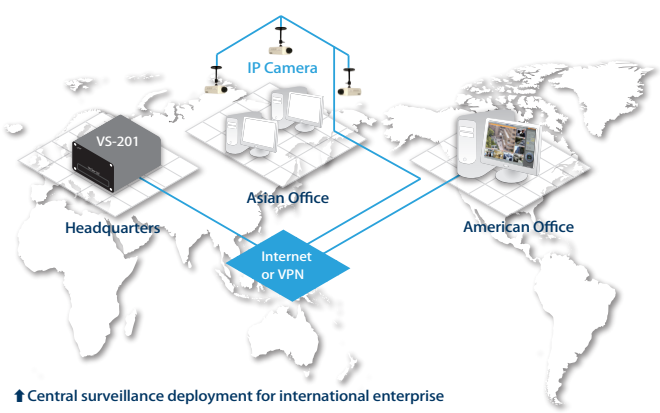
Powerful Surveillance Features

- **High quality recordings in Motion-JPEG and MPEG-4 (depend on camera)**
  VioStor supports high quality monitoring, recording and playback.

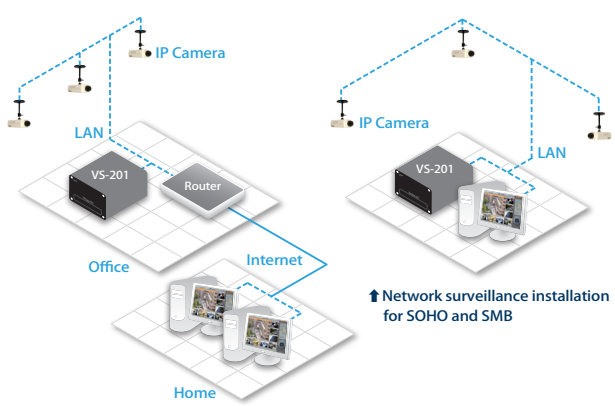
- **All-in-one recording functions:**
  - Continuous /Manual /Schedule recording
  - Alarm recording (by motion detected or sensor triggered)

  The all-in-one recording functions of VioStor includes continuous and manual recording. By manual recording, users can enable recording in emergent condition. Moreover, VioStor provides scheduled recording that users can set different recording schedules for different cameras. 15 schedules are supported for

- **VioStor Network Architecture**



⬆ Central surveillance deployment for international enterprise



⬆ Network surveillance installation for SOHO and SMB

⬆ Remote monitoring and playback over the Internet

each camera at maximum. VioStor also provides alarm recording that recording will start automatically when motion detection or camera sensor is triggered. No important events will be missed under the secure monitoring of VioStor!

- **Variety live video monitoring:**
  - Single/Quad/Octave/Sequential mode
  - Exclusive Picture-in-Picture mode

VioStor is the world's only system that supports picture-in-picture mode. Variety monitoring combinations are also provided. Users can adjust the monitoring modes according to their own demand.

- **Real-time monitoring everywhere**

By web-based monitoring and management interface, you can manage recording, live monitoring and playback video anytime, anywhere.

- **Smart control of PTZ (Pan, Tilt, Zoom) & speed dome camera by direct clicking on video screen**

If the network camera supports PTZ camera, VioStor enables users to click on the PTZ control on the web interface directly to adjust the direction and zooming angle of the camera.

- **E-map function for easy preview of the camera location**

VioStor is the world's only NVR that provides exclusive E-map function. Users can upload the pictures of the location that the cameras are installed. In case of emergency, they can refer to the E-map to indicate the location and adjust the monitoring direction.

- **Support video snapshot**

VioStor provides real-time monitoring as well as real-time snapshot. Users can take a snapshot of the monitoring screen anytime.

- **Real-time e-mail notification to user upon alert events**

VioStor supports e-mail alert feature that warning e-mails will be sent to administrator immediately in case of system error or emergent events.

- **Powerful pre-alarm and post-alarm recording**

VioStor supports pre-alarm and post-alarm recording, which is used to record additional detail before and after the event occurs.

- **Easy playback searching by date & time and alarm event**

VioStor enables searching recording data by date and time, and also by alert events. This reduces the time and enhances the efficiency of searching recording.

- **Recordings can be easily downloaded to remote computer for playback**

VioStor adopts complete network-based management interface that users can download recording data via the web and play the files from remote computer. This largely increases the convenience of accessing recording data.

- **Recordings can be played by Windows Media Player**

The file format of VioStor recording data is avi. Users can play the files by the popular video playing program. There is no need to install unique program or convert the files to other formats to view the video.

- **Flexible adjustment of the length of recording files**

VioStor enables users to adjust the length of the recording files, which is more flexible than general NVR that recording length is fixed.

- **(Option)support Audio recording function**

VioStor supports powerful audio recording. When record, monitor or play back video, audio function can be enabled for complete surveillance.

➡ E-map preview

⬇ Octave live video monitoring

⬇ Picture-in-Picture mode live video monitoring

Easy to Use

- **Easy setup in only 6 steps, the system is ready to use!**

VioStor provides quick setup for users to complete installation in 6 simple steps. Even novice can finish the installation easily.

- **Intuitive user interface and simple GUI.**

The intuitive and user-friendly administration interface is highly suitable for home, SOHO and SMB users to install and manage the system quickly and conveniently.

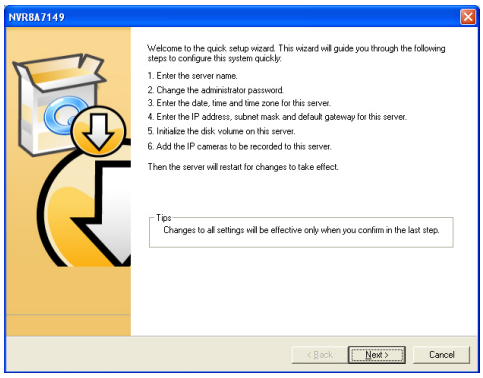
- **All functions can be managed anytime, anywhere via web interface**

The web-based administration interface enables users to access VioStor anytime via the network.

- **Convenient quick link buttons of network camera**

Besides configuring the network cameras by the administration interface of VioStor, users can also make use of the quick link buttons to access the management interface of the network cameras to configure the cameras.

⬇ 6 Steps to install VioStor


NVR8A7149
Welcome to the quick setup wizard. This wizard will guide you through the following steps to configure this system quickly:
1. Enter the server name.
2. Change the administrator password.
3. Enter the date, time and time zone for this server.
4. Enter the IP address, subnet mask and default gateway for this server.
5. Initialize the disk volume on this server.
6. Add the IP cameras to be recorded to this server.
Then the server will restart for changes to take effect.
Tips
Changes to all settings will be effective only when you confirm in the last step.
< Back
Next >
Cancel

High Performance

- **Video recording frame rate*:**
  - Up to 240 frames at QVGA (320x240) or CIF (352x240 in NTSC, 352x288 in PAL)
  - Up to 80 frames at VGA (640x480)

* Real performance may varies in different environment

VioStor provides outstanding recording quality. In purely independent network environment, QVGA or CIF can reach 240 frames/sec.

- **High-speed Gigabit LAN interface**

VioStor is equipped with Gigabit LAN port to largely enhance the network access performance.

High Reliability and Smart Features

- **Support extra secure data protection by RAID 1 Mirroring**
  To enhance data security and protection, VioStor provides RAID 1 (mirroring) configuration. Recording data is highly secured and the reading rate is also increased. VioStor also provides hot swap function. When a hard disk fails, the failed disk can be replaced by a new one immediately without shutting down the system, and the recording data can be reserved.

- **Support RAID 0, JBOD (Just a Bunch of Disks/ Linear)**
  In addition to RAID 1 (mirroring) function, VioStor supports RAID 0 and JBOD configurations for larger storage capacity and higher reading and writing performance.

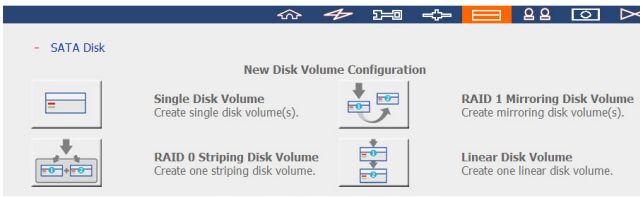
- **Intelligent automatic system startup when power resumes after power outage**
  VioStor supports intelligent power-on support. When enabled, the system can turn on automatically when power resumes after power outage.

- **Support UPS (Uninterruptible Power Supply) system for 24x7 service**
  VioStor supports UPS to enable stable and continuous recording 24x7. With UPS, the system can function normally in case of power outage or unstable power supply.

- **Convenient video backup to external USB storage by One Touch auto video backup button**
  VioStor supports exclusive USB auto video backup button. By pressing the button once, all recording data on VioStor will start to be copied to external USB storage device immediately.

- **Detailed record of all events**
  VioStor provides detailed event logs covering system warning, hard disk error, network disconnection and UPS status etc. for users to maintain and manage VioStor. The logs can be classified to all events, warning & errors, and errors for quick searching.

⬇VS-201 RAID setup page


SATA Disk
New Disk Volume Configuration
Single Disk Volume
Create single disk volume(s).
RAID 1 Mirroring Disk Volume
Create mirroring disk volume(s).
RAID 0 Striping Disk Volume
Create one striping disk volume.
Linear Disk Volume
Create one linear disk volume.

Powerful Network Services

- **Powerful authority management. The right to monitor and playback each camera can be separately defined for each individual user**
  VioStor enables administrator to configure monitoring and playback authority of specified cameras for different users. The authority can be set for up to 32 users. Different monitoring and playback rights can be assigned for individual user.

- **Built-in NTP server. Date and time of the network cameras are synchronized with this NVR**
  VioStor has built-in NTP server feature. All the network cameras connected to the VioStor can synchronize the time settings with VioStor. Users do not need to establish another NTP server or adjust the time of the cameras one by one.

- **The world's only NVR with NAS feature embedded**
  • Network Neighborhood (SMB/CIFS)
  • FTP server
  • Web File Management (HTTP)
  VioStor is built-in with powerful NAS (Network attached storage) function. Users can access the data on the server via SMB/CIFS, Web File Manager and FTP. Multiple network resource sharing mechanisms are provided for users to access and play the recording files.

Software specification

Video	
Display Mode	1, 4, 8, Picture in Picture ,Sequential mode
Recording Cameras Number	Up to 8
Network Camera Support	Panasonic BB and BL Series PTZ camera More brands and series will be supported in the future * For the information of supported camera models, please visit QNAP website, www.qnap.com
Compression Format	Motion JPEG MPEG 4 (depend on IP Camera)
Video Setting	Resolution, Quality, Frame Rate
E-map	Upload E-map
Recording	
Recording Mode	Continuous , Manual, Schedule , Alarm , Motion, Snapshot
Buffer Storage for Alarm Images (before and post events)	Pre-recording :300 Seconds / Post –recording :300 Seconds (Total 600 Seconds/ 10 Minutes)
Recording Performance	Up to 240 frames at QVGA (320x240) or CIF (352x240 in NTSC, 352x 288 in PAL)/Up to 80 frames at VGA (640x480) * Real performance may varies in different environment
File format	AVI (Recordings can be played by Windows Media Player)
Playback	
Playback Mode	Play , Pause , Stop , Fast forwards , Full screen display
Video Search	Search by Date , Time
Video Player	Immediately playback by default video player
Download	Click to download recorded files from Web-Page
Storage	
Disk Mode	Single , Raid 0 , Raid 1 , JBOD/ Linear
Capacity	Support 2 x 3.5" SATA I/II HDD, Up to 1.5 TB
Services	Web File Manager , FTP , SMB/CIFS
Network	
Support	HTTP , TCP/IP , SMTP, DHCP, Static IP, DNS, DDNS, FTP, NTP, UPnP
Camera IP address & Port	Allow setting LAN/WAN IP address of each camera
Utility Software	
QNAP Finder	Discovery and quick setup
Security	
Operation system	Linux embedded, free from PC crash and virus attack
User Management	The right to monitor and playback each camera can be separately defined for each individual user (up to 32 users)
Alert Notification	E-mail , Buzzer, Event log
UPS	Support APC (USB type of UPS)
Event Log	Detailed record of all events
Client PC Requirement	
CPU	Pentium 4 CPU 2 GHz or higher
Memory	512 MB or above
Operation system	Windows XP or later
Browser	Internet Explorer 6.0 or later
Network interface	10/100 Mbps or above
View Resolution	Suggest 1024 X 768 pixel or above
Language Support	
English / Japanese/ French / Italian / German /Spanish/ Simplified Chinese / Traditional Chinese	
Certification	
CE , FCC , VCCI ,BSMI	

Hardware specification

HDD	2 x 3.5" SATA I/II HDD, up to 1.5 TB. (the standard system is shipping without HDD)
LAN Ports	1 x Gigabit RJ-45 Ethernet port
LED Indicator	Power, USB, status, LAN, hard disk
USB	3 x USB ; For USB storage device for One Touch Auto-Video Backup and UPS device
Button	USB Auto-Video Backup Button , Power Button , Reset Button
Form Factor	Desktop
Dimensions	270(D) x 203(W) x 235 (H) mm
Weight	Net weight: 2.4Kg (without HDD) Gross weight: 3.5 Kg (without HDD)
Operation Enviroment	Temperature: 0~40°C Humidity: 0%~90% R.H
Power Supply	External power adapter, 60W, 100~240V
Energy saving Design	HDD Sleep mode Low power consumption & low noise
Thermal solution	Noiseless Fan Case
Secure Design	K-Lock Security Slot for Theft Prevention

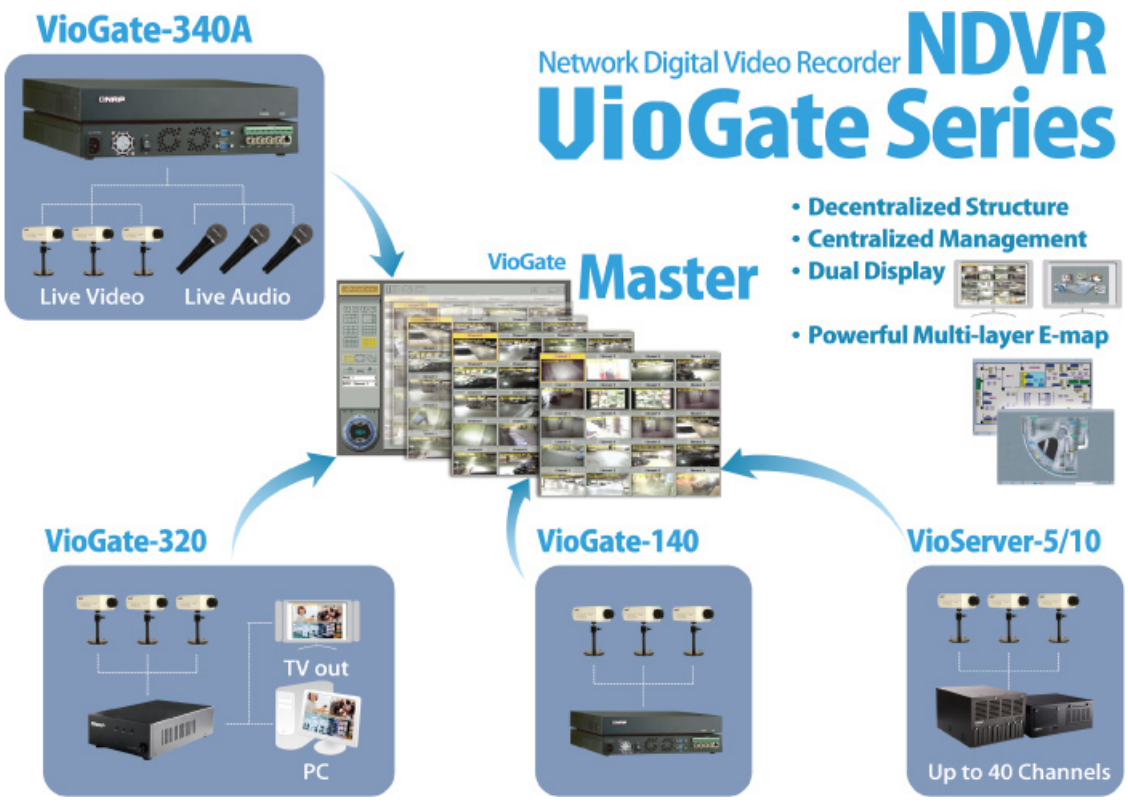
* Designs and specifications are subject to change without notice.

VioGate Master

Main Feature: VioGate, VioCard, and NAC series products integration software

VioGate Master is the software to integrate VioGate DVR servers, VioCard DVR cards, and NAC Network cameras. Users can integrate all systems via network very easily. Where VioGate Master is installed, where the Virtual Management Center is!!

From finding all the devices in the network automatically to configuring all of them, all you need to do is just click several buttons, and the system will be set up in a moment!!



Video Pages Management

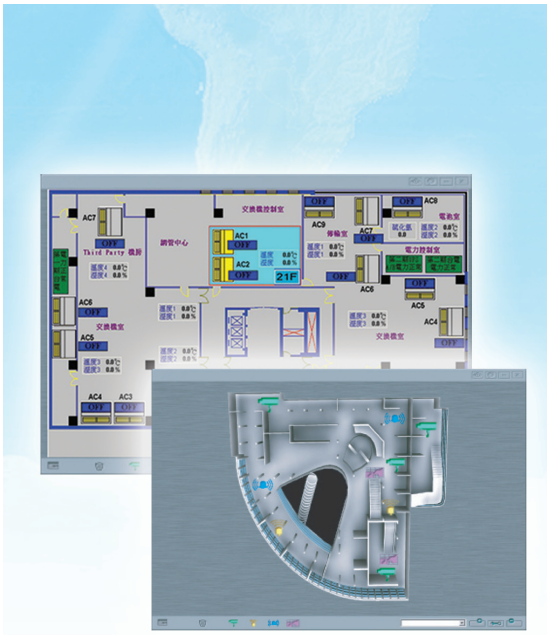
The flexible video pages let you combine the whole pages of video you would like to view. You can choose to display 1, 4, 9, 12, 16, or 20 channels in one page and classify all video source you want, even if they are from different servers and located in different places.

All servers functions configuration

With VioGate Master, all servers can be configured at the same time. It controls every function such as recording, playback, event handling, network setting, etc.

Powerful E-Map

By VioGate Master E-map function, you can upload pictures and drag the camera icons to the right position to identify the camera from the E-map.



Powerful Graphic Control System

Features

- Manage QNAP VioGate, VioCard, and NAC series products at the same time
- Viewing and recording hundreds or even thousands of cameras
- Flexible video pages management
- Powerful E-map
- Complete event management
- Automatically detect servers and log in with default ID & password

Order Information

VioGate Master 2.0-32
Manages 32 video channels of QNAP VioGate, VioCard, NAC series

VioGate Master 2.0-64
Manages 64 video channels of QNAP VioGate, VioCard, NAC series

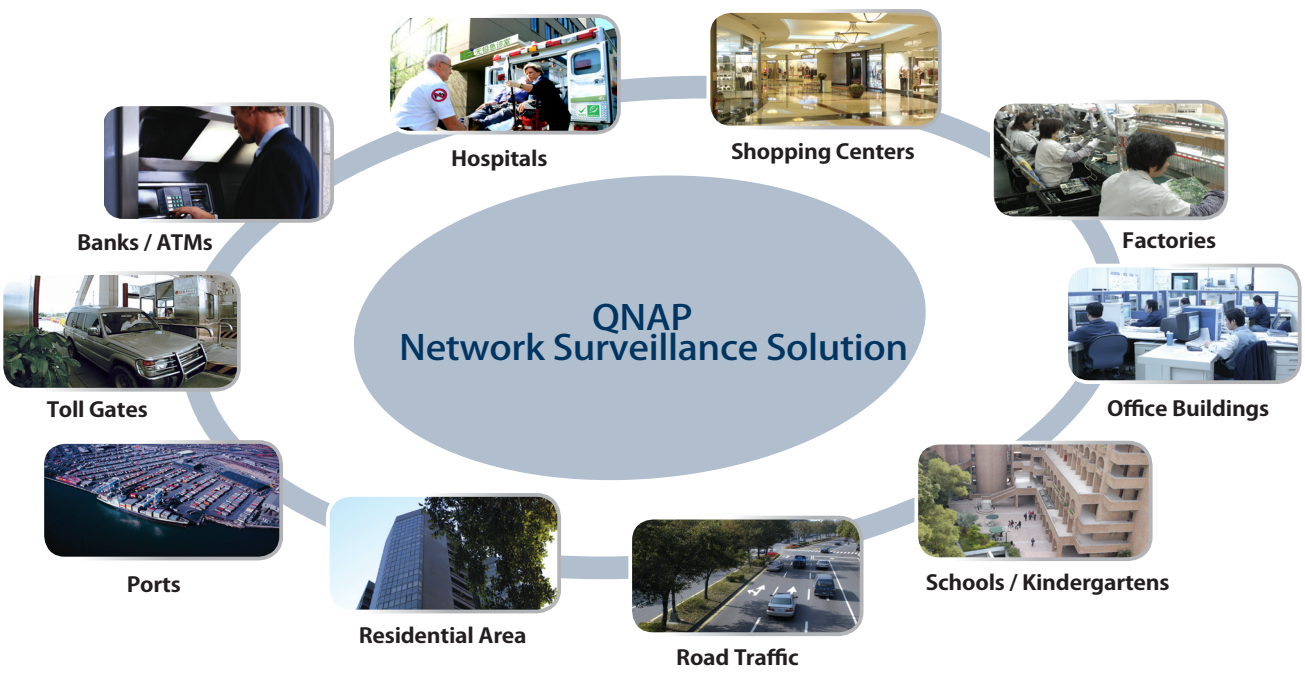
VioGate Master 2.0-Pro
Manages unlimited video channels of QNAP VioGate, VioCard, NAC series

Product Specifications

Model Name	VioGate Master
Support Servers	VioGate, VioCard, and NAC series.
Auto Detect Servers	Auto detect servers in LAN and login with default ID & password
Video Displaying	1, 4, 9, 12, 16, 20 channels, Sequential Mode, and PIP(Picture in Picture)
System Settings	Configure all server name and description
Network Settings	Use DHCP, static IP, or PPPoE. Dynamic DNS server, DNS server setting, Multicast
IP Security	Allow all connections, connections only from certain IP, deny connections from certain IP
User Management	Add user, remove user, modify user password. Edit user settings: View certain cameras, playback certain cameras, control PTZ cameras, configure system settings.
Camera Settings	Camera name, resolution, compression rate, frame rate, PTZ control
Recording Mode	Continuous recording, schedule recording, event-triggered recording, manual recording
Video Playback	Playback by time / event / file, fast playback support
Event Handling	Event Types: Motion detection, video input loss, network failure, storage connection failure, storage space full ,GPI(General Purpose Input) Event Action Type: Recording, E-mail, SMS, alarm buzzer, notify remote client, GPO(General Purpose Output)
Statistics and Logs	Active users, historical users, event logs, backup event logs
System Tools	System update, backup/ restore system configurations, restart/ shutdown system, enable hardware configuration reset switch, disk tools (format disk, checking disk)
Apply to All	All servers' time, DNS server, firewall, user management, camera settings, system update, restart systems, shutdown systems, enable configuration reset switch, disk tools.
E-map	Multi-layers E-Map with event notification
On-line Help	Yes
Languages	English, Chinese-Traditional, Chinese-Simplified
System Requirement	OS: Windows 2000, XP CPU: P4 2.0 or above Ram: 256MB, (512 MB is recommended) Display: 1024 x 768 or above

QNAP Network Surveillance Solution

QNAP Network Surveillance Solution is an integrated solution combining digital image capture and network monitoring. Data is saved to NAS (Network Attached Storage) for centralized monitoring, remote storage and management to achieve cross-region surveillance and storage efficiency. In network surveillance system, image data is digitalized, saved and modularized for display over the network. Camera and storage device can be freely implemented to establish a boundless virtual monitoring center.



Road traffic and car park surveillance

Applying QNAP network camera NAC-300/200 and network surveillance system VioGate-340/140 in main roads, image can be saved by QNAP Network Video Recorder VioStor-220 or QNAP NAS products. Mass wiring is no longer necessary since data transfer is processed over the network. The system monitors road traffic and public security. It also provides real-time traffic information for drivers to avoid traveling to jammed area.

Blind angle surveillance

QNAP DVR can be easily integrated with existing security system to enhance surveillance efficiency. Digital image is the best evidence and can be easily saved and searched.

Applying QNAP NDVR VioGate-340/140 in potentially unsafe area, e.g. main roads, park, community, and schools can help prevent crime and record evidence for tracking criminal case.

Public project monitoring

In a democratic society, government information is often open to the public. Installing network camera can help broadcast instant information of construction projects. Image data can be recorded and saved in government's project database for public access via the Internet.

Factory / office building surveillance

Companies can monitor the operation of remote factory buildings or branches in different cities or countries via the network, saving the cost and effort to visit them one by one. Supervisor can implement network camera in construction area or factory to monitor the production process and warehouse security. With network surveillance and on-line communication, traveling cost is greatly reduced and production management becomes more efficient.

Shopping centers

Network camera installed in stores, shopping centers and malls helps monitor the shops at all time and protect the property and customers against crime. QNAP NDVR can be equipped with sensor devices to trigger visual alert on motion detected and send message to remote centers to save human resource.

Convenient stores

Convenient stores are distributed almost everywhere. To achieve complete warehouse control and enhanced security, network camera must be installed. In case of robbery, network camera can help record the appearance of the suspect clearly, which is an incomparable feature that general surveillance system cannot beat.

International branches

Enterprises may have to afford high cost on visiting and inspecting their local and overseas branches. Network camera can be installed in the branches to save such cost and provide more efficient management.

Construction work monitoring

Construction area can be strictly monitored by installing network camera. Developers can make sure construction progress is on schedule and the area is secure.

Surveillance in banks and financial centers

There is potential risk that bank staff may embezzle company property. QNAP DVR allows administrator to monitor office area 24 hours a day to prevent defalcation and robbery. Data recorded can also be an evidence to break crime.

Museum surveillance

Network camera can be used to show the image of cultural relic displayed in museum for public to view via the network and attract more visitors. Administrator can also monitor every corner of the museum to enhance secure protection.

Schools and kindergartens

Network camera helps schools to monitor the campus and enables parents to view the activities of their children in schools.

Military institution, airport, mass transit system

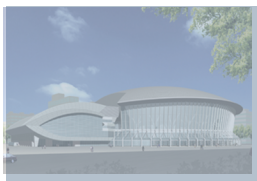
Specific network camera can be installed to enhance security of government property and organizations.

Playground and Large-scale Function Center

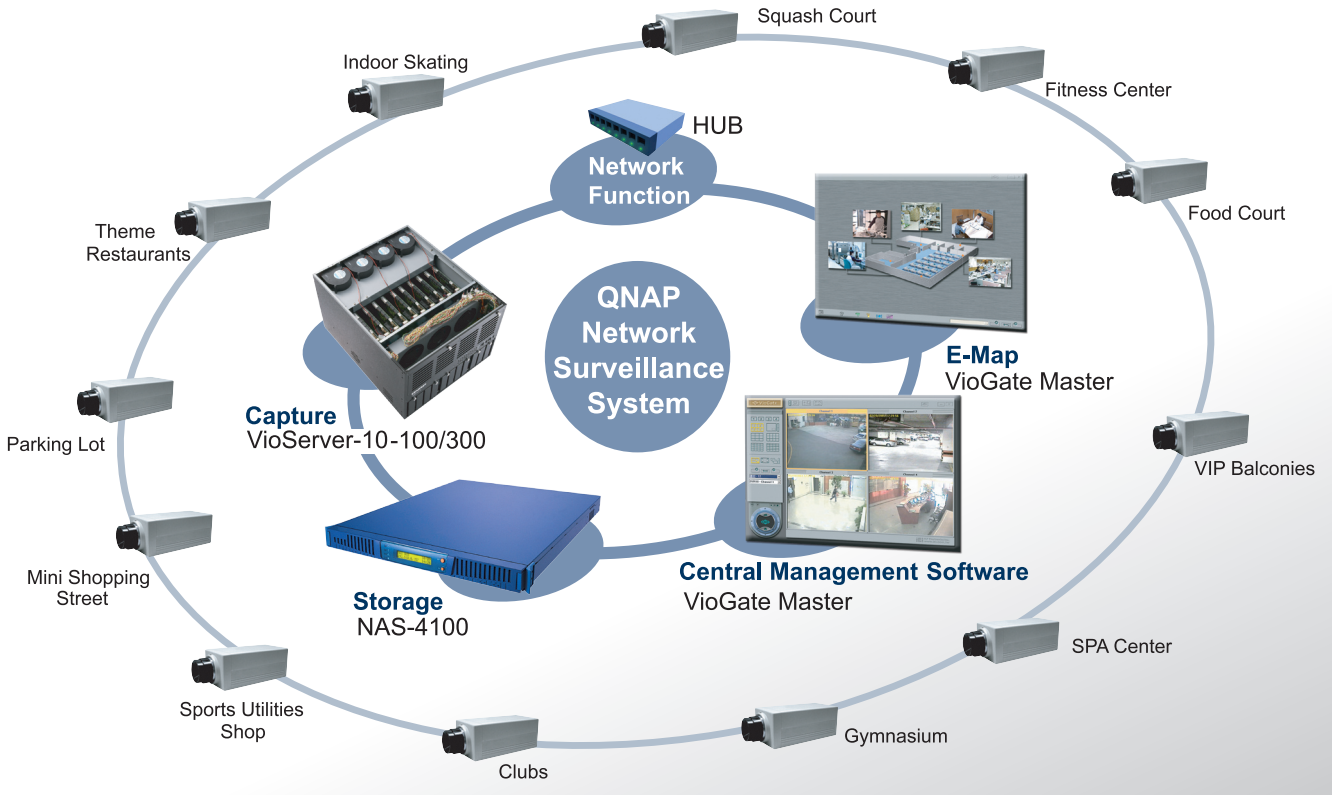
Taipei Arena is a 6-level building. The total area is about 6000 pings to accommodate 15,000 audiences at maximum. There are 48 VIP balconies, an international-standard indoor skating rink with 800 seats, 5 squash courts, fitness center, them restaurants, food court, mini shopping street, sports utilities shop, clubs, gymnasium, SPA center, and car park! Taipei Arena is one of the best places that all people can go for leisure. It is estimated more than 200 large-scale functions will be held in a year.

Digital surveillance system installed in Taipei Arena for real-time image monitoring and event recording will help hinder crime and provide evidence. Security of Taipei Arena will be further enhanced by installing QNAP modularized DVR series VioCard-100/300, VioServer-5/10, central monitoring software VioGate Master and 200 cameras.

A complete alert mechanism installed in central monitoring system enables display of instant image and electronic map, and inform security guard in case of any events. The system supports data replication to provide the fastest backup when error occurs. The system is highly expandable and compatible with other systems including door control, alarm and remote monitoring management.



Structure:
Data of nearly 200 camera channels is saved on 8 NAS-4100 servers via the network. All monitoring screen and electronic map can be shown on 10 screens simultaneously.

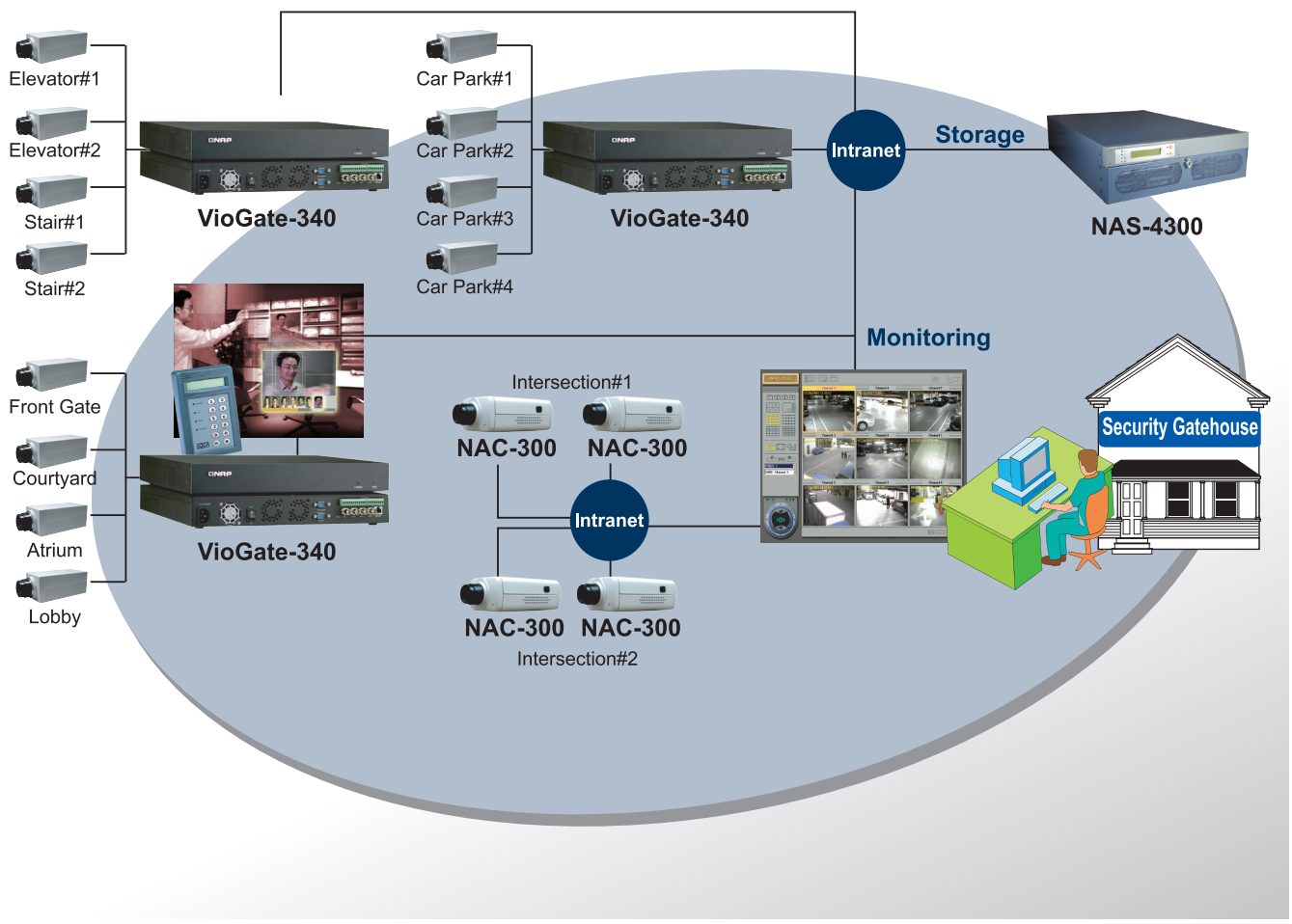


Surveillance System of Residential Area & Building

Urbanization often changes a city's land use structure and social culture. It further leads to an increase in crime rate which is widely concerned. To prevent crime, social security should be strengthened by environment design, i.e. installation of surveillance system. The aim of this is to prevent crime and reduce crime rate, as well as to enhance the sense of security of the public. Most people recognize hidden places, like remote regions, small lanes or locations without restricted entry permission, are more vulnerable to crime. However, most criminal events often take place in locations that are easily accessed and escaped from, e.g. main roads. QNAP network surveillance system provides a real and complete protection of an urbanized community.

To establish a surveillance center in the community, network surveillance system VioGate-340 can be installed in all avenues and lanes while network camera NAC-300 can be installed in remote and scattered regions. Monitoring video can be accessed and sent to surveillance center (usually in the gatehouse or community office) via the Intranet or Internet. There is no need to install large amount of connection wires for signal transfer. All areas in the community can be monitored 24x7 uninterruptedly. Image can be recorded instantly and sent to the administrator or security guard via the network. With GPIO alarm support of VioGate series, local police or security guard will be alert of emergency. Recorded images can also be an evidence for fighting against crime. Therefore, public security is enhanced.

QNAP surveillance products are network-based for monitoring and management via the network from anywhere. Instant image of car park, stairs and lanes can all be captured. The system provides monitoring authority feature to define the control functions that can be used by remote users. As network camera is installed, all residents can help monitor the community by accessing the system.



Real-time monitoring everywhere via web interface

Factories

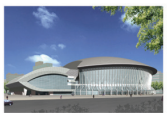
Residential Area

Ports

Bank ATMs

Road Traffic

Toll Gates



Museum

Schools

Office Building

Shopping Mall

Hospital

QNAP Systems, Inc. www.qnap.com
TEL: 886-2-8698 2000 FAX: 886-2-8698 2270
Address: 21F, No. 77, Sec. 1, Xintai 5th Rd, Xizhi City, Taipei County, 221, Taiwan, R.O.C.

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